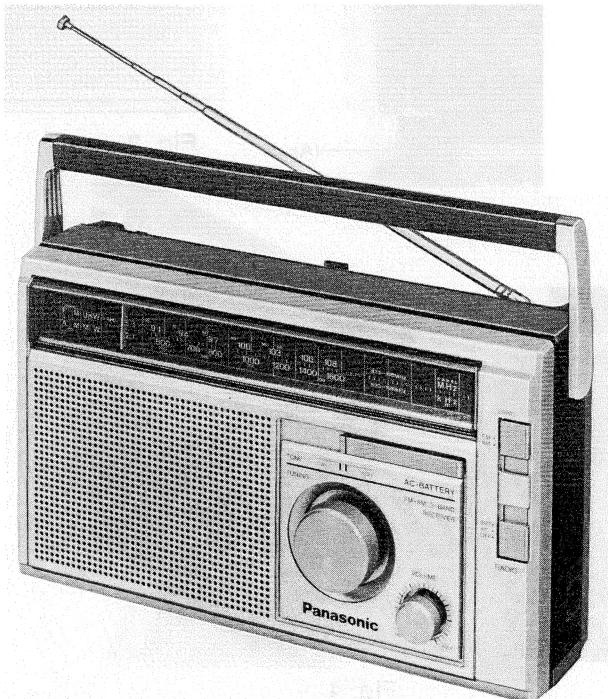


Service Manual

Radio
RF-568BS

FM-AM PORTABLE RADIO



■ SPECIFICATIONS

General:

Power Requirement:

AC; 220V 50/60Hz

Battery; 6V (Four "AA" Size Batteries)
(National UM-3 or equivalent)

Power Consumption:

4W (AC only)

Power Output:

600mW...RMS (max.)

Speaker:

9cm (3 1/2") PM Dynamic

Speaker (8Ω)

Output:

Earphone/EXT SP; 8Ω

Dimensions:

265mm(W)×149mm(H)×90mm(D)

(10 3/8"×5 7/8"×3 1/2")

Weight:

820g (1 lb. 12.9 oz.) without batteries

Radio Section:

Radio Frequency

Range: FM; 87.5~108MHz
AM; 520~1610kHz (577~186m)

Intermediate

Frequency: FM; 10.7MHz
AM; 455kHz

Sensitivity: FM; 4μV/50mW output
AM; 32μV/m/50mW output

Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

DISASSEMBLY INSTRUCTIONS

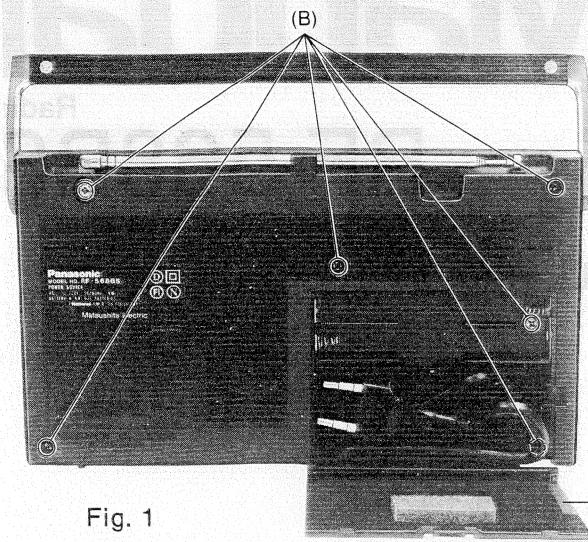


Fig. 1

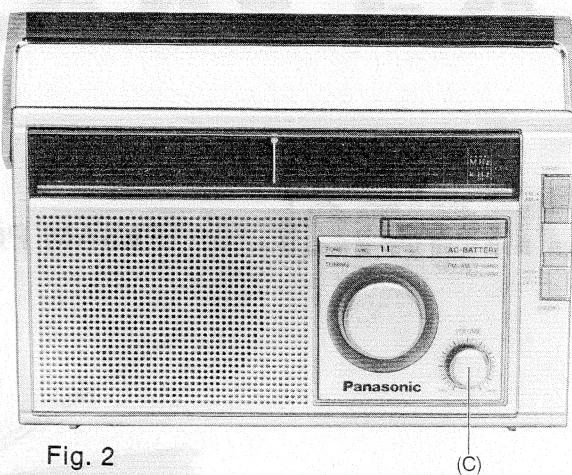


Fig. 2

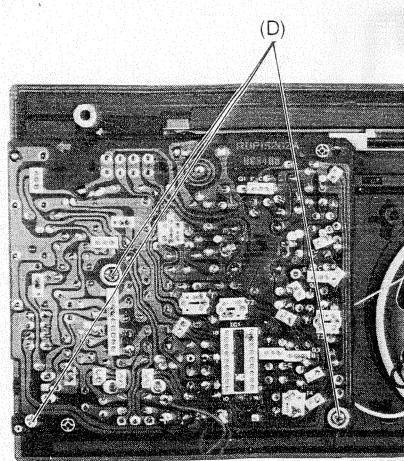


Fig. 3

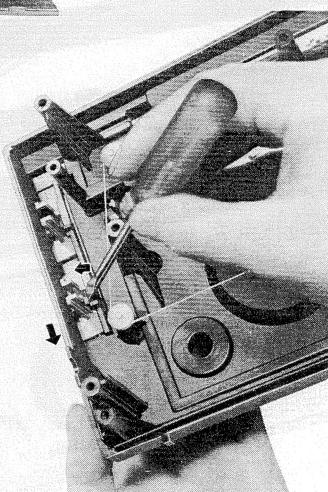


Fig. 4

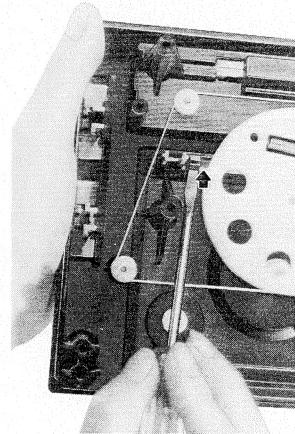


Fig. 5

Procedure	To remove —.	Remove —.	Shown in Fig. —.
1	Rear Cabinet Ass'y	Battery Cover	1
2		Screw (3×25)	
3	Printed Circuit Board	Knob	2
4		Screw (3×12)	
5	Radio and Band Switch Buttons.	Pull the Switch Button downward while depressing the rib with a driver.	4
6	Tone Switch Knob	Depress the rib downward with a driver.	5

■ DIAL THREADING

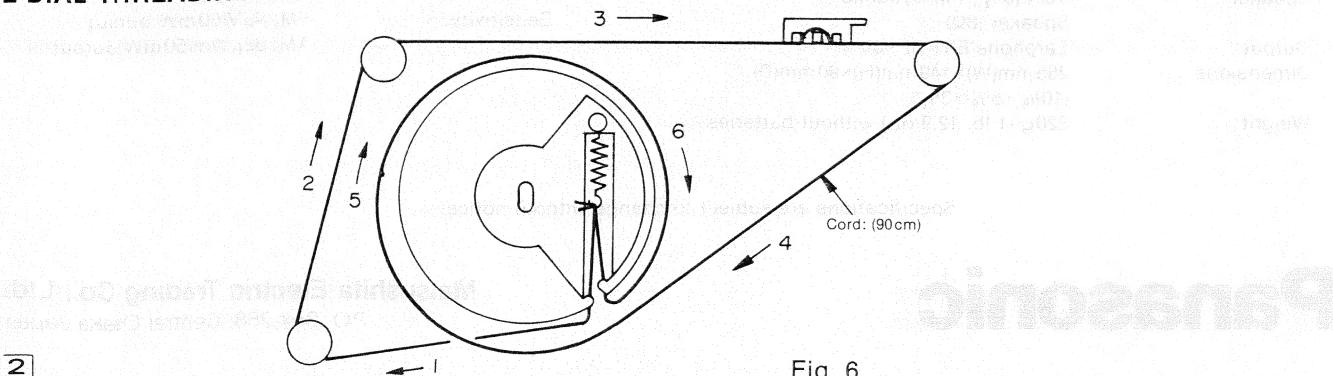


Fig. 6

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set tone switch to High.
2. Set volume control to maximum.
3. Set band switch to AM or FM.
4. Set radio switch to BATT.
5. Output of signal generator should be no higher than necessary to obtain an output reading.
6. Set power source voltage DC 6V.

■ AM AND FM ALIGNMENT

■ ALIGNMENT POINTS

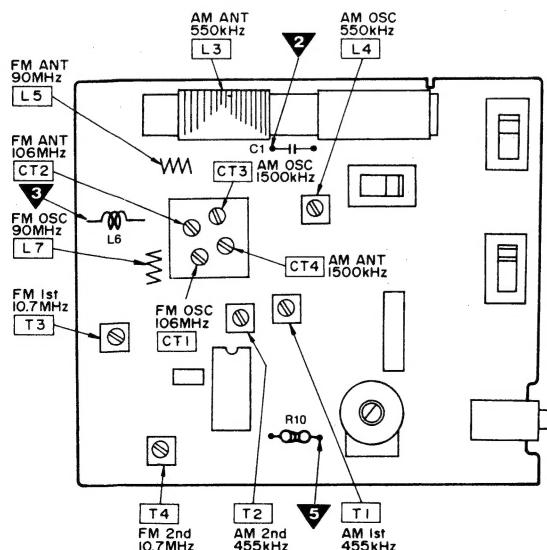


Fig. 7

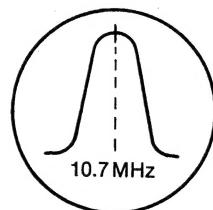


Fig. 8

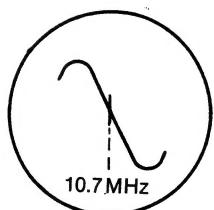
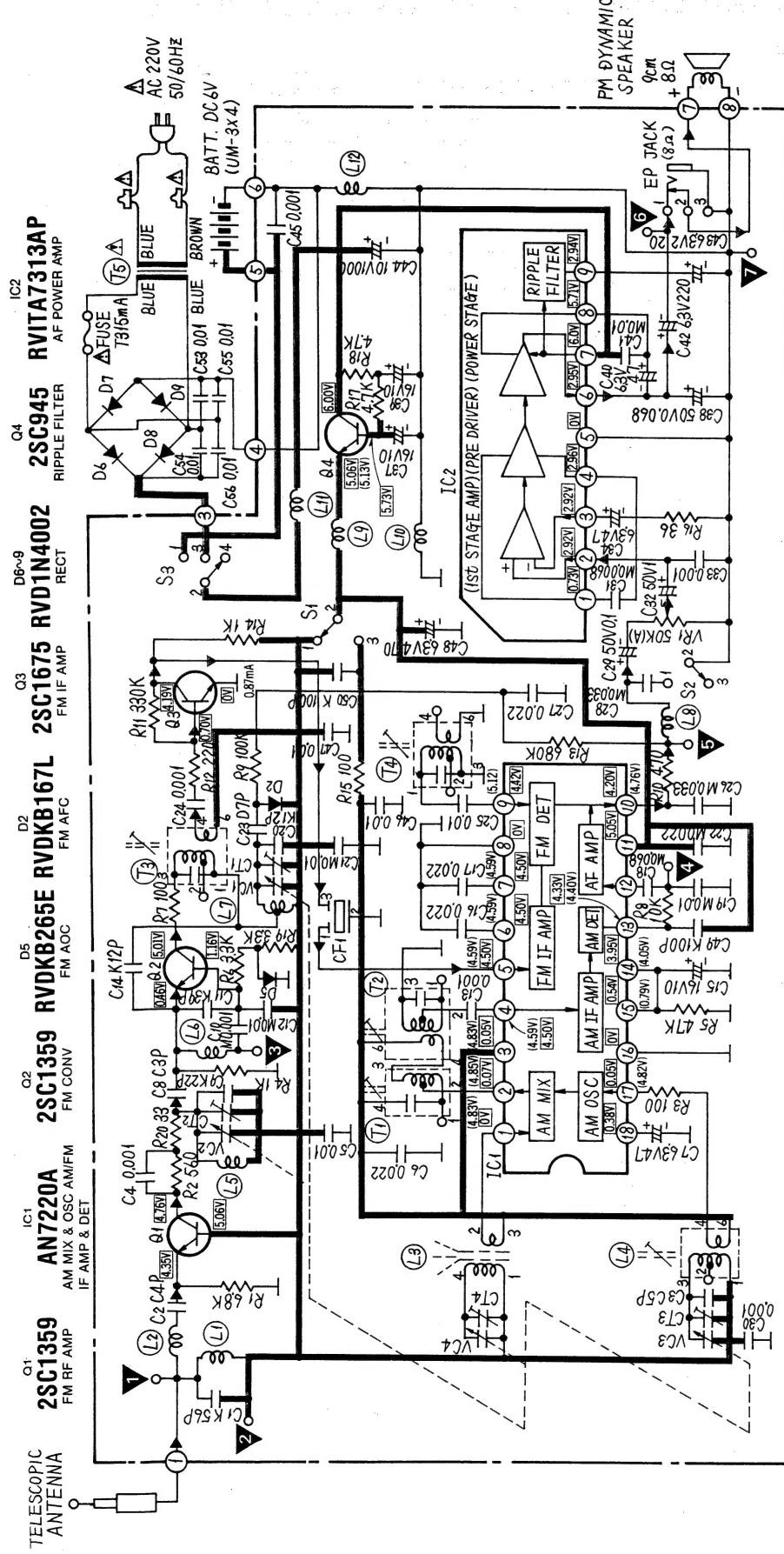


Fig. 9

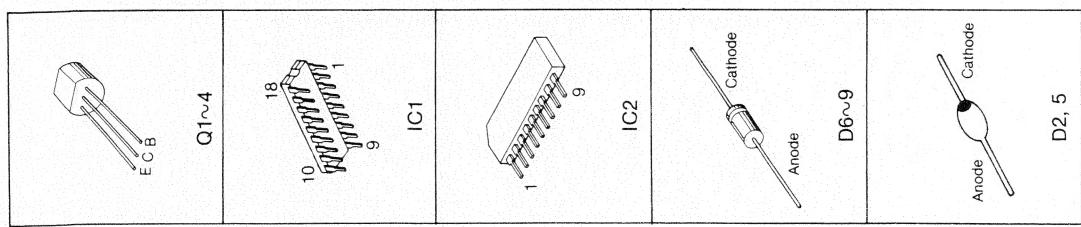


Notes:

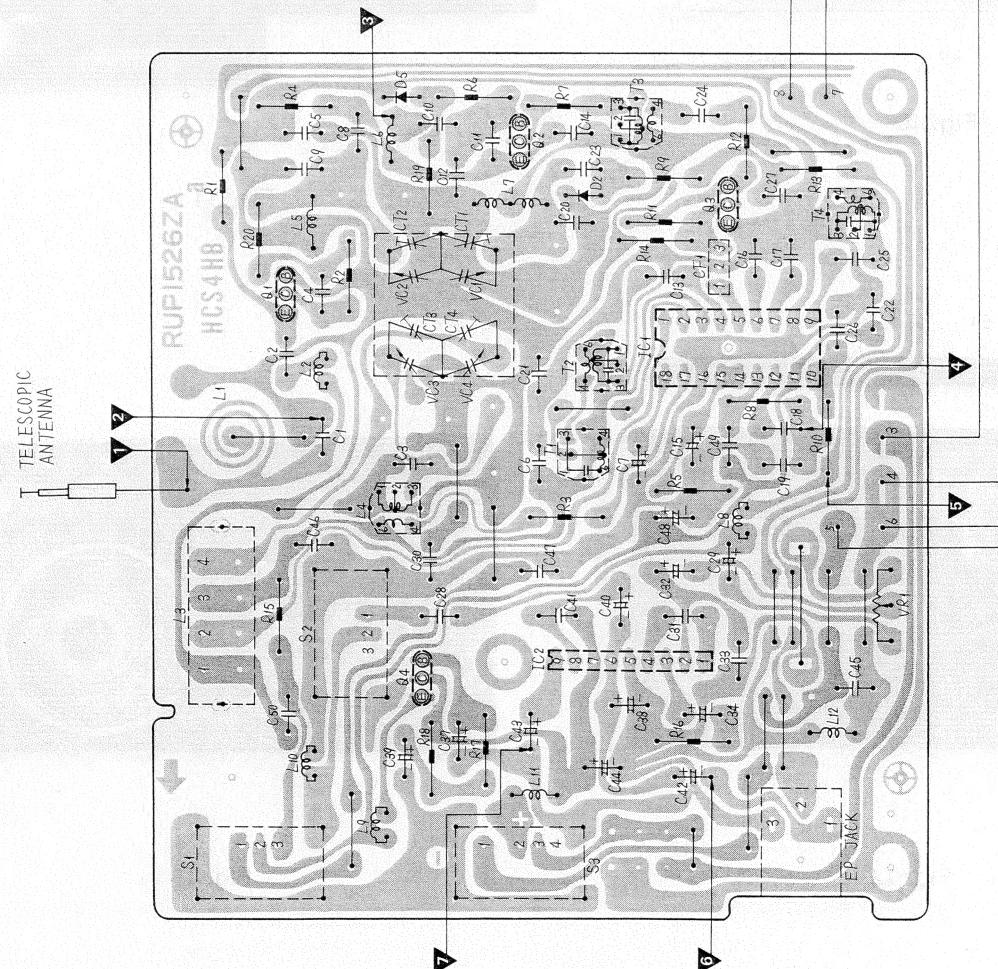
Notes:

1. S1 Band switch in "FM" position.
(1...FM, 3...AM).
2. S2 Tone switch in "High" position.
(1...LOW, 3...HIGH).
3. S3 Radio switch in "OFF" position.
(1...BATT, 3...AC, 4...OFF).
4. DC voltage measurements are taken with electronic voltmeter from negative terminal of battery.
...FM position, ()...AM position.
5. Battery current: No signal 22mA
Maximum output 170mA
6. **Important safety notice**
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

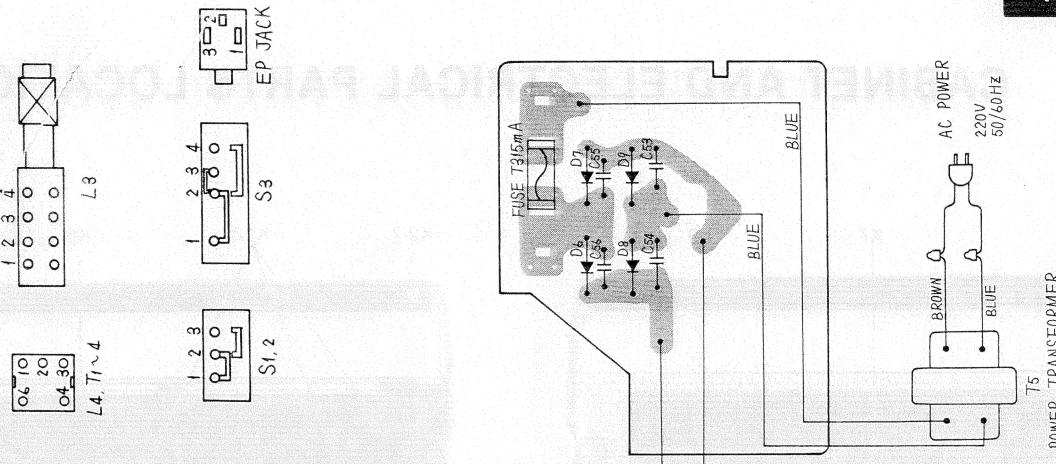
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RF-568BS



TELESCOPIC
ANTENNA



BOTTOM VIEW



BATTERY
6V (UM-3x4)

AC POWER

220V

50/60Hz

POWER TRANSFORMER

T5

RF-568BS

CABINET AND ELECTRICAL PARTS LOCATIONS

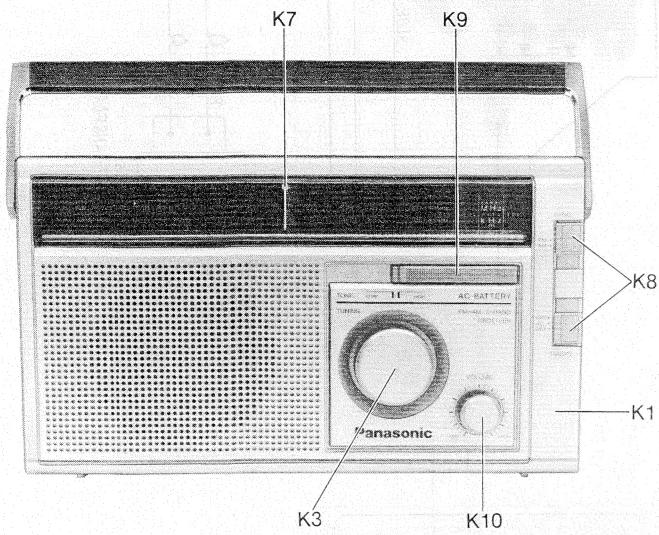


Fig. 10

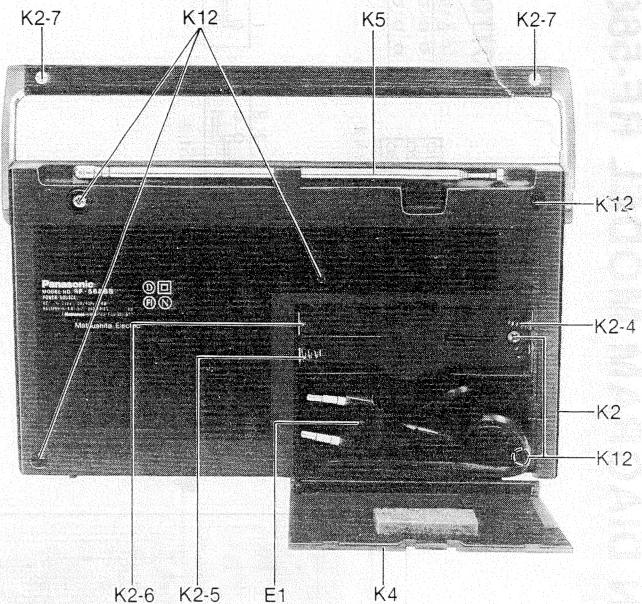


Fig. 11

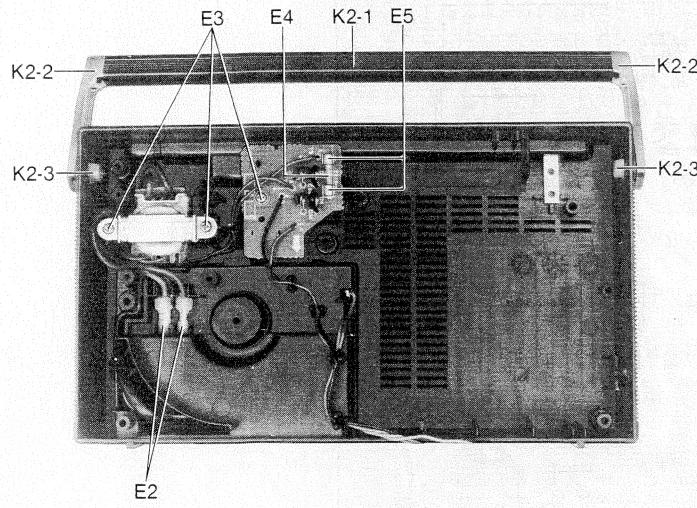


Fig. 12

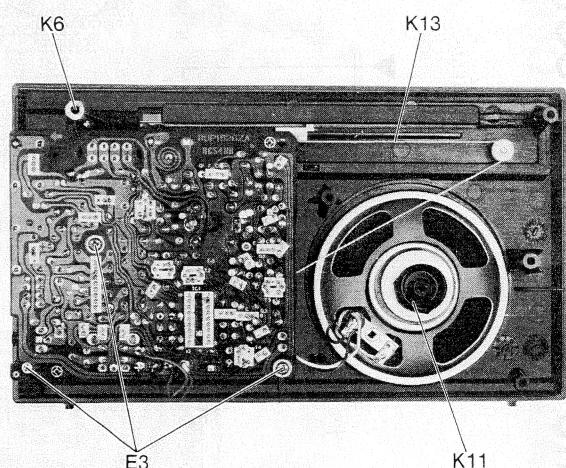


Fig. 13

■REPLACEMENT PARTS LIST

Model RF-568BS

(RD83035342C2)

NOTES: 1. Important safety notice.

Components identified by Δ mark have special characteristics important for safety.

When replacing any of these components, use only manufacturer's specified parts.

2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES				
IC1	AN7220A	IC	1	
IC2	RVITA7313AP	IC	1	
Q1,2	2SC1359B	Transistor (Si)	2	
Q3	2SC1675-L	Transistor (Si)	1	S
Q4	2SC945-Q	Transistor (Si)	1	S
D2	MA27C	Diode (Si)	1	S
D6,7,8,9	RVD1N4002	Diode (Si)	4	
D5	RVDKB265E	Diode (Si)	1	S
COILS AND TRANSFORMERS				
L3	RLF2V154	Antenna Coil, AM	1	
L4	RLO2B105	Oscillator Coil, AM	1	
L5	RLD4Y44	Antenna Coil, FM	1	
L7	RL04Y44	Oscillator Coil, FM	1	
T1	RLI2B216	IFT, AM 1st	1	
T2	RLI2B217	IFT, AM 2nd	1	
T3	RLI4B153	IFT, FM 1st	1	
T4	RLI4B157	IFT, FM 2nd	1	
T5	RLT512G1A	Power Transformer	1	Δ
VARIABLE RESISTOR				
VR1	EVH0XAF30A54	Variable Resistor, 50k Ω (A)	1	
VARIABLE CAPACITOR				
VC1~4	RCV4LC2R1A	Tuning Capacitor, w/Trimmer Capacitor (CTL1~4)	1	
CERAMIC FILTER				
CF1	RVF107NAZ	Ceramic Filter	1	
SPEAKER				
	RAS9P11Z	Speaker, 9cm (3-1/2")	1	
SWITCHES				
S1,2	RSS2A08Z	Switch, Band, Tone	2	
S3	RSS3A02Z	Switch, Radio	1	
JACK				
J1	QJA0172	Jack, EXT. SP	1	
CAPACITORS (Value is in MICRO FARADS except P.P.=PICO FARADS)				
C1	ECCD1H560K	56 P 50V Ceramic	1	
C2	ECCD1H040C	4 P " "	1	
C3	ECCD1H050C	5 P " "	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
C4	ECKD1H102ZF	0.001	50V	Ceramic	1	
C5	ECKD1H103ZF	0.01	"	"	1	
C6	ECKD1H223ZF	0.022	"	"	1	
C7	ECEA1AS470	47	10V	Electrolytic	1	
C8	ECCD1H030C	3 P	50V	Ceramic	1	
C9	ECCD1H220KC	22 P	"	"	1	
C10	ECKD1H102MD	0.001	"	"	1	
C11	ECCD1H390K	39 P	"	"	1	
C12	ECKD1H103ZF	0.01	"	"	1	
C13	ECKD1H102ZF	0.001	"	"	1	
C14	ECCD1H120KC	12 P	"	"	1	
C15	ECEA1HS100	10	"	Electrolytic	1	
C16	ECKD1H223ZF	0.022	"	Ceramic	1	
C17	ECFVD223MD	0.022	25V	Semi-Conductor	1	
C18	ECFVD683MD	0.068	"	"	1	
C19	ECKD1H103ZF	0.01	50V	Ceramic	1	
C20	ECCD1H120KC	12 P	"	"	1	
C21	ECKD1H103MD	0.01	"	"	1	
C22	ECFVD473MD	0.047	25V	Semi-Conductor	1	
C23	ECCD1H070DC	7 P	50V	Ceramic	1	
C24	ECKD1H102ZF	0.001	"	"	1	
C25	ECKD1H103ZF	0.01	"	"	1	
C26	ECFVD333MD	0.033	25V	Semi-Conductor	1	
C27	ECKD1H223ZF	0.022	50V	Ceramic	1	
C28	ECFVD473MD	0.047	25V	Semi-Conductor	1	
C29	ECEA50Z1	0.1	50V	Electrolytic	1	
C30	ECKD1H102ZF	0.001	"	Ceramic	1	
C31	ECKD1H102MD	0.001	"	"	1	
C32	ECEA50Z1	1	"	Electrolytic	1	
C33	ECKD1H102ZF	0.001	"	Ceramic	1	
C34	ECEA1AS470	47	10V	Electrolytic	1	
C37	ECEA1HS100	10	50V	Electrolytic	1	
C38	ECFVD683MD	0.068	25V	Semi-Conductor	1	
C39	ECEA1HS100	10	50V	Electrolytic	1	
C40	ECEA1AS470	47	10V	"	1	
C41	ECKD1H103MD	0.01	50V	Ceramic	1	
C42,43	ECEA1AS221	220	10V	Electrolytic	2	
C44	ECEA1AS102	1000	"	"	1	
C45	ECKD1H102ZF	0.001	50V	Ceramic	1	
C46	ECFVD223MD	0.022	25V	Semi-Conductor	1	
C47	ECKD1H103ZF	0.01	50V	Ceramic	1	
C48	ECEA0JS471	470	6.3V	Electrolytic	1	
C50	ECCD1H101K	100 P	50V	Ceramic	1	
C53~56	ECKD1H103ZF	0.01	50V	Ceramic	4	
RESISTORS (Value is in OHMS)						
R1	ERD25FJ682	6.8 k	1/4W	Carbon	1	
R2	ERD25FJ561	560	"	"	1	
R3	ERD25FJ101	100	"	"	1	
R4	ERD25FJ102	1 k	"	"	1	
R5	ERD25FJ473	47 k	"	"	1	
R6	ERD25FJ332	3.3 k	"	"	1	
R7	ERD25FJ101	100	"	"	1	
R8	ERD25FJ103	10 k	"	"	1	
R9	ERD25TJ104	100 k	"	"	1	
R10	ERD25FJ471	470	"	"	1	
R11	ERD25TJ334	330 k	"	"	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R12	ERD25FJ221	220 1/4W Carbon	1	S
R13	ERD25TJ684	680 k "	1	S
R14	ERD25FJ102	1 k "	1	S
R15	ERD25FJ101	100 "	1	S
R16	ERD25FJ330	33 "	1	S
R17, 18	ERD25FJ472	4.7 k "	2	S
R19	ERD25FJ332	3.3 k "	1	S
R20	ERD25FJ330	33 "	1	S
CABINET PARTS				
K1	RYMF568BSXG8	Front Cabinet Ass'y	1	
K2	RYFF568BSXG	Rear Cabinet Ass'y	1	
K2-1	RKX243Z	Handle	1	
K2-2	RKX249Z	Arm, Handle	2	
K2-3	RNW803Z	Spacer, Handle	2	
K2-4	RJC730Z	Terminal, Battery +, - Side	1	
K2-5	RJC322Z	Terminal, Battery - Side	1	
K2-6	RJC314Z	Terminal, Battery + Side	1	
K2-7	XTB3+8CFC	Screw, Handle M'tg	2	
K3	RYTF568MKSN	Tuning Knob, Ass'y	1	
K4	RYNF568MKSN	Battery Cover, Ass'y	1	
K5	XEARK162EDY	Telescopic Antenna	1	
K6	RJT514Z	Terminal, Antenna	1	
K7	RDP846Z	Pointer, Dial	1	
K8	RBD155Z	Knob, Band & Radio Switch	2	
K9	RBD156Z	Knob, Tone Switch	1	
K10	RBN579Y	Knob, Volume	1	
K11	RHG473Z	Rubber, Speaker	1	
K12	XTB3+25BFN	Screw, Cabinet M'tg	6	
K13	RDZ05Z	Dial Cord (90cm)	1	S
		ROLL		
ELECTRICAL PARTS				
E1	RJA23Y	AC Power Cord (Fig.11)	1	S 
E2	RHR108A	Connecting Pipe, AC Power Cord	2	
E3	XTW3+12F	Screw, 3x12	6	
E4	XBA2CO3TRO	Fuse, T315mA 250V	1	
E5	QTF1054	Holder, Fuse	2	
ACCESSORY				
	XEHLA1P	Earphone	1	S
PACKING MATERIALS				
	RPK1606Z	Gift Box	1	
	RPN9414Z	Pad	1	
	XZB36X30A04	Poly Bag	1	S
PRINTED MATERIAL				
	RQX4138Z	Instruction Book	1	